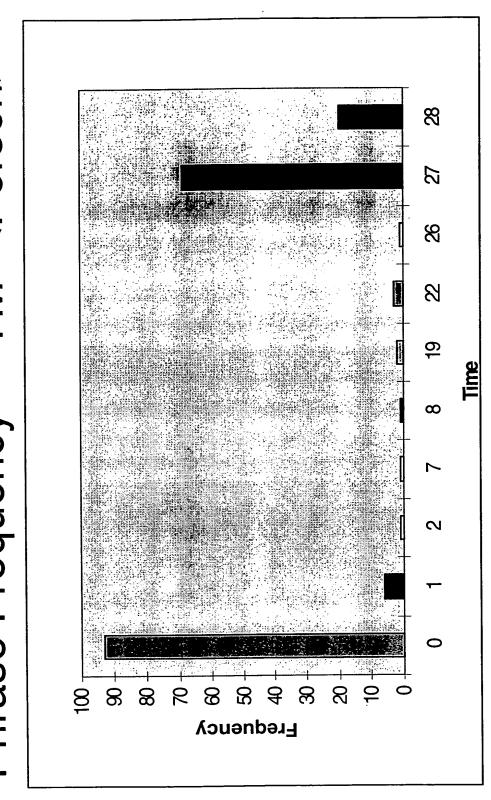
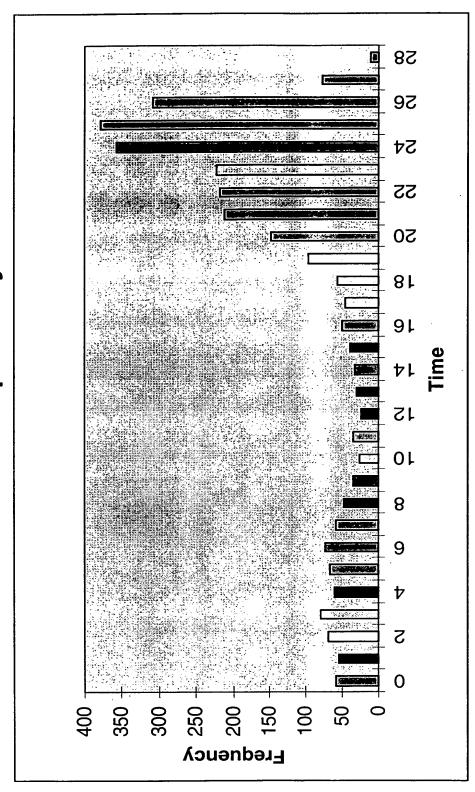


Phrase Frequency -- "I'M" <Person>



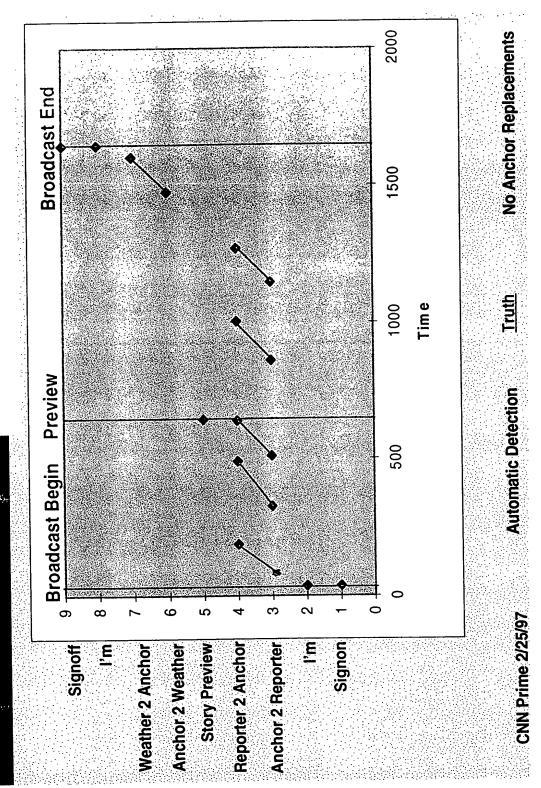
Uses Phrase "I'm" and Alembic's detection of a <Person>

Weather Term Frequency



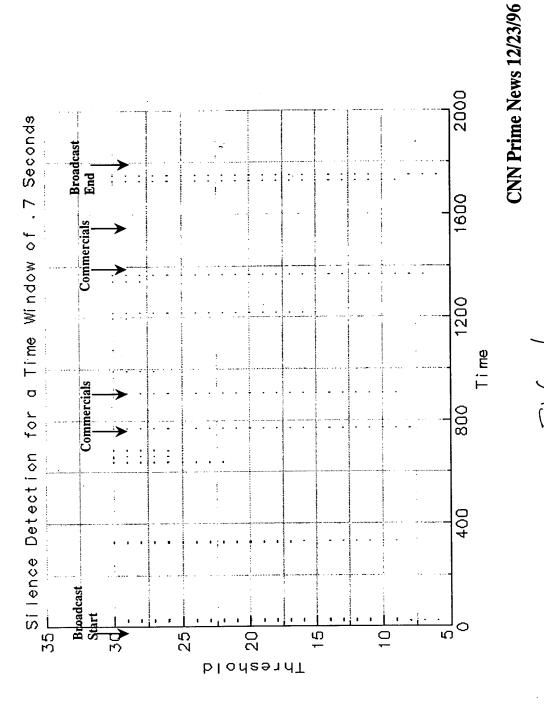
Most CNN Prime News weather forecasts start after 18 minutes.

BNA Textual Tokens

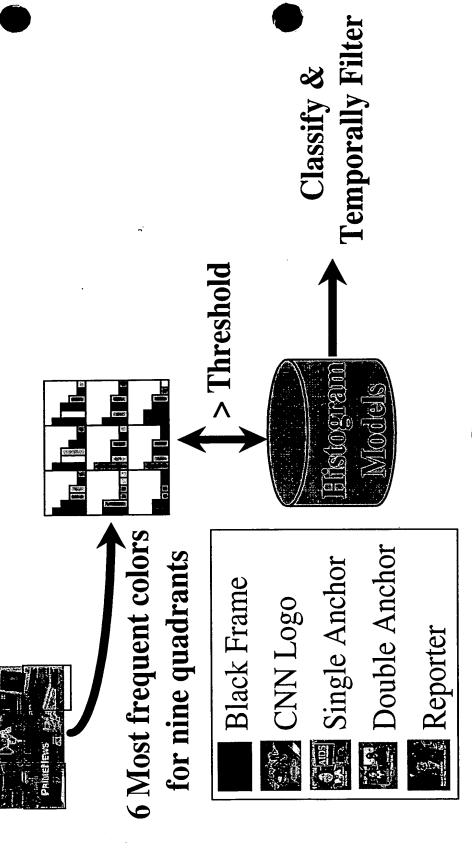


F16.5

Silence Detection



Scene Classification



CNN Graphical Vocabulary



End Logo



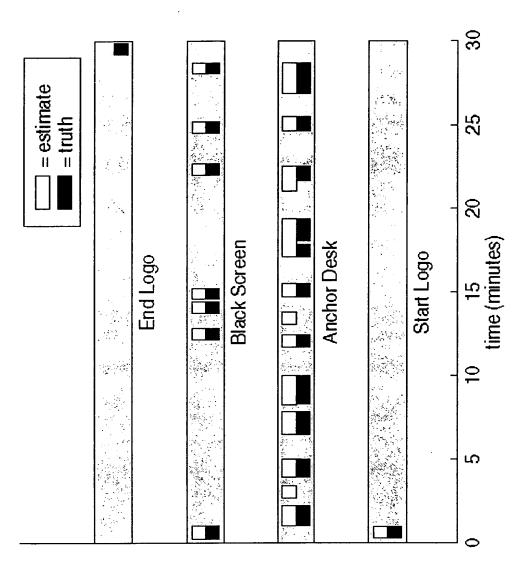
Black Screen



Anchor Desk

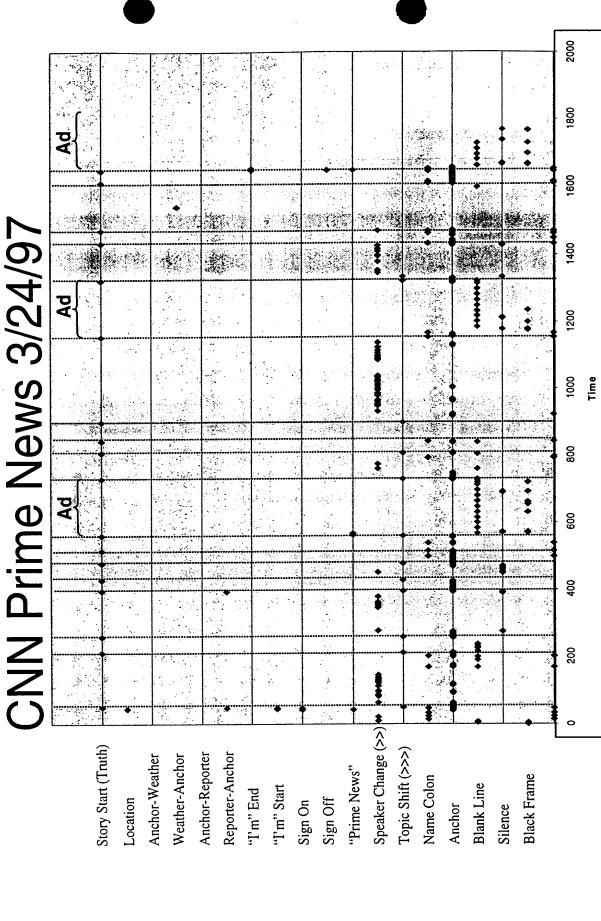


Start Logo



16.8 F16.8

BNA: Cue Correlation for



F16.9

Story Segment Identification Overview **Broadcast News Analysis:**

MPEG

Cues

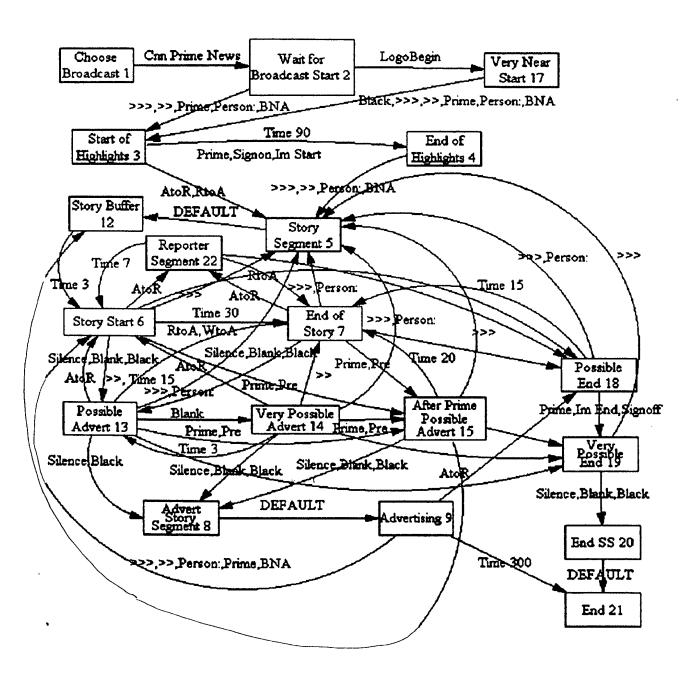
Location
Anchor-Weather
Weather-Anchor
Anchor-Reporter
Reporter-Anchor
"I'm" End
"I'm" Start
Sign On
Sign Off
"Prime News"
Speaker Change (>>)
Topic Shift (>>>)
Name Colon
Anchor Speaking
Blank Line
Silence

Advertising Start TIETS ISBORDADIE Story Start Story Start Story Start Time Enhanced FSA

Time >

MITRE

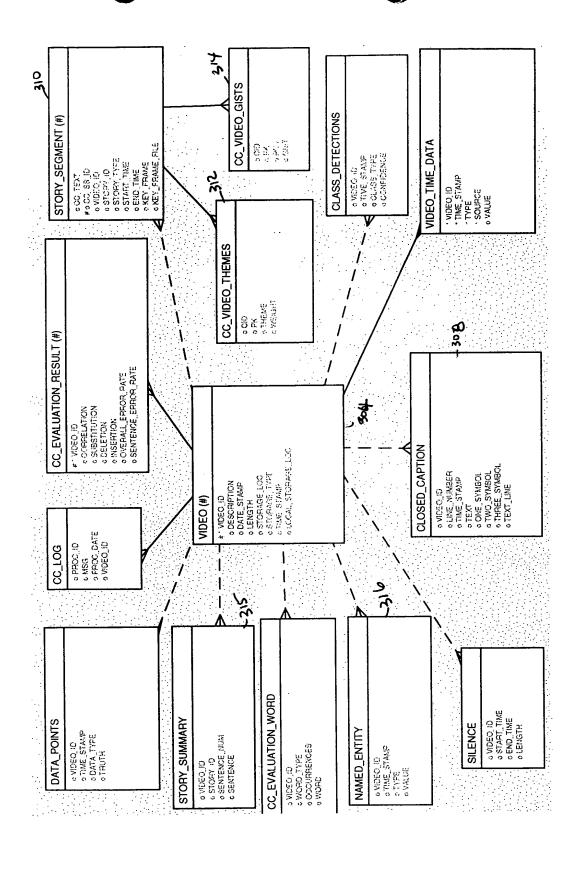
Black Frame



F16. 11

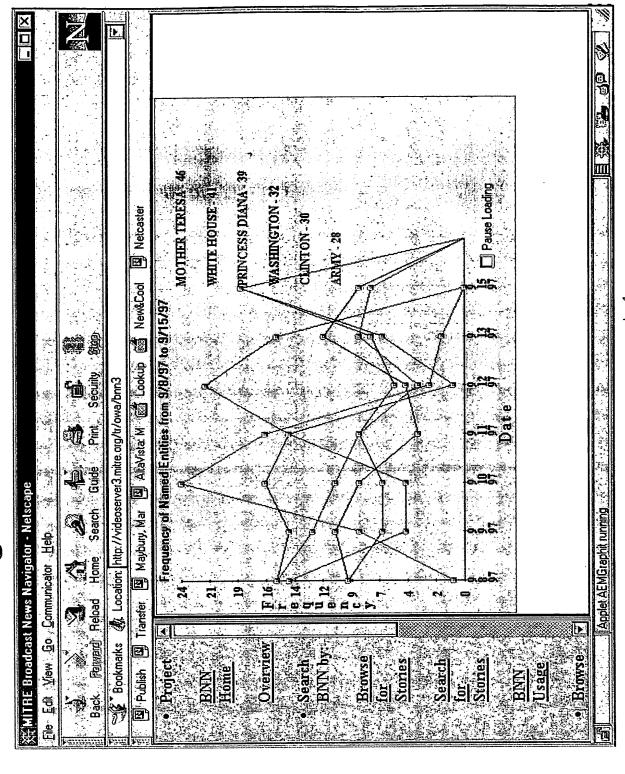
State_ID Description

- 1 Start
- 2 Wait for Broadcast Start
- 3 Highlights Begin
- 4 Highlights are ending
- 5 Story Segment Detected
- 6 Start of Story
- 7 Near end of Story
- 8 Advert Story Segment
- 9 Wait for Advert End
- 10 Broadcast End Story Segment
- 11 Broadcast Over
- 12 Story Buffer
- 13 Possible Advertisement
- 14 Very Possible Advertisement
- 15 Prime Possible Advertisement
- 16 Prime Highlight
- 17 Very Near Start
- 18 Possible end of Broadcast
- 19 Very Possible End
- 20 End Story Segment
- 21 End Broadcast
- 22 Reporter Segment



F16.13

Visualizing the News



Broadcast News Navigator Query Screen

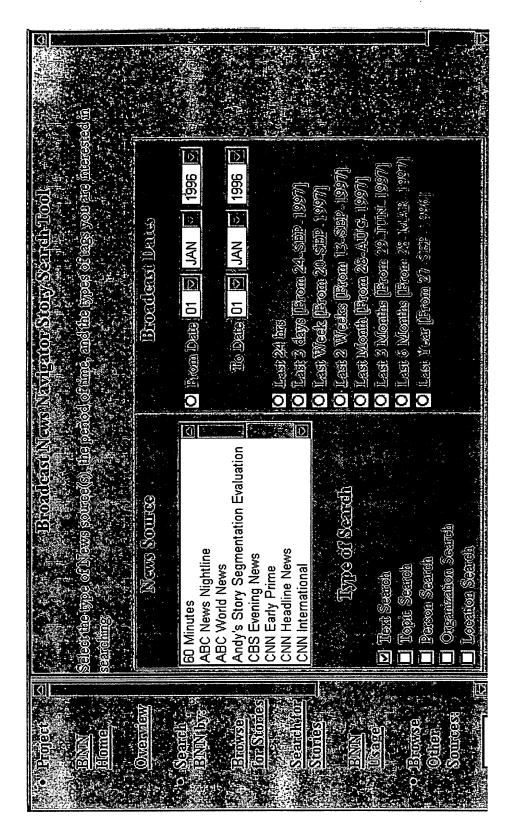
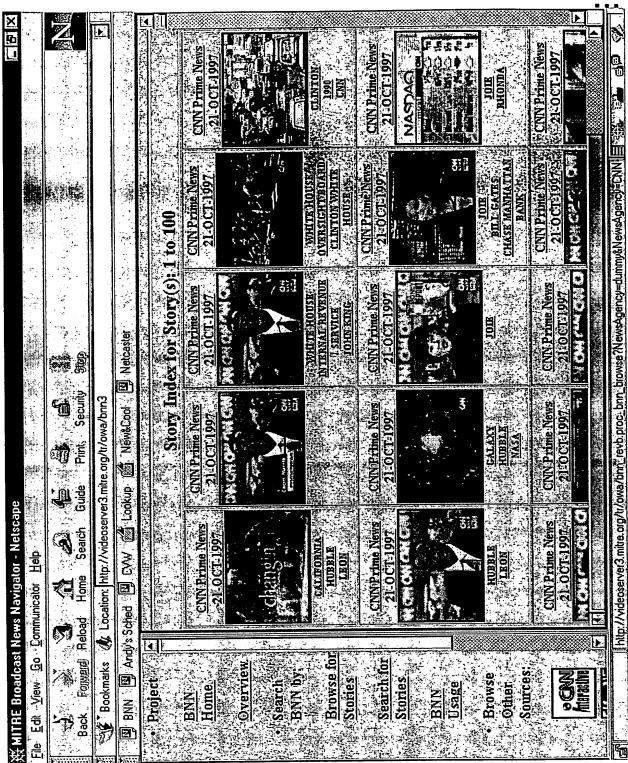


FIG 15

BNN Browse



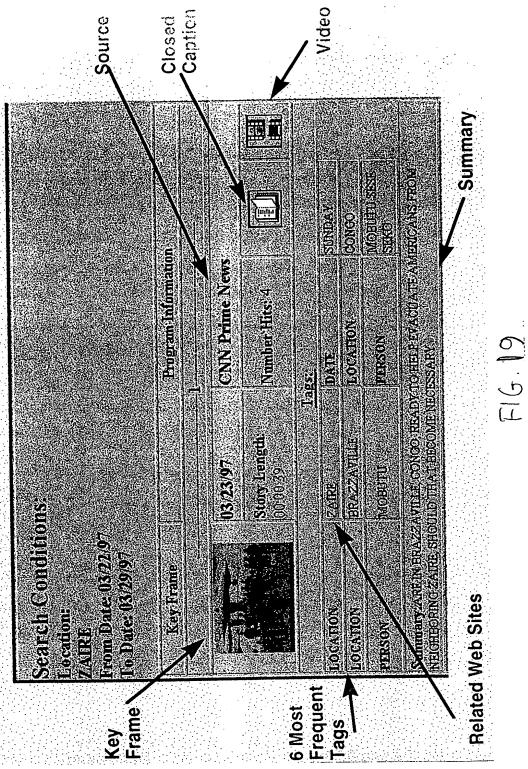
91 11-1

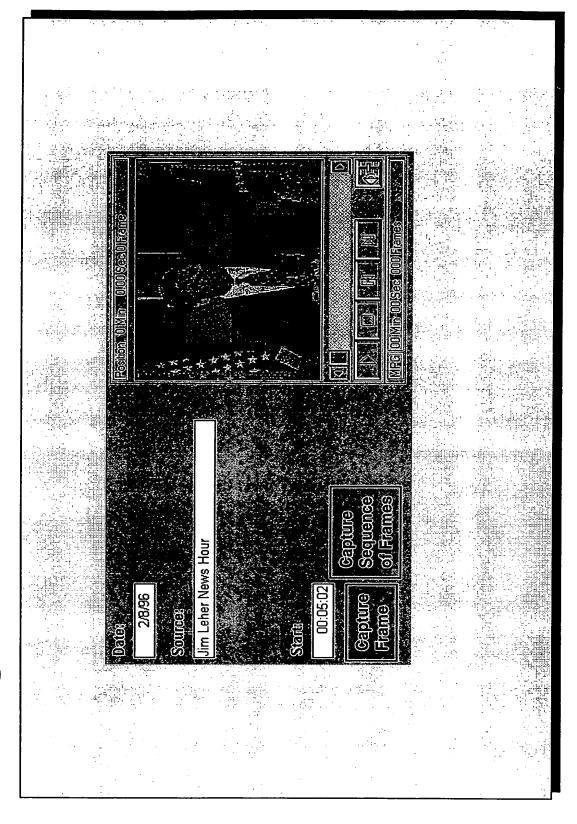
BNN Browsing: "Pentagon"

	CNN Prime News 109_JUN-1997 NALSTON ADULTERN CONT Prime News T-12-AUG-1997 WARTAGON TO THE CONT TO TH
	Story Index for Story(s): 1 to 10 CNN Prime News GNAY 1997 6 MAY 1997 6 MAY 1997 10. JUN. CNN Prime News CNN Prime News
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arch: Conditions: adcast Agency(s): CNN Prime News in Date: 18 MAR. 1997 To Date: 17-5fb-1997 t Search: PENTAGON nber Of Hits: 38	CUND Prime News CONN Prime News CONN Prime News CONN Prime News CARL ACCIONAL
File Edit View Go Community Project Seg- Brown Home Home Tex Overview Num Search	Browse for Stories Stories Stories Usage Other Sources Sources

Web-user Identifies Time Period and Story Topic of Interest

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Viewing the Video

17.91日

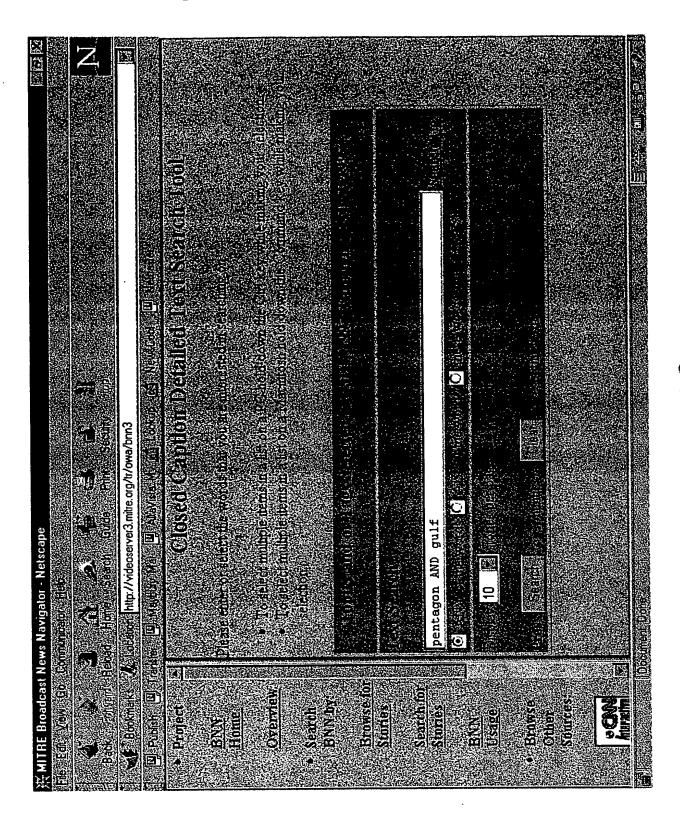


FIG. 22